Product Data Sheet

APC/Cyanine7 anti-human TCR Vγ9

Catalog # / 2256640 / 100 tests

Size: 2256635 / 25 tests

Clone: B3

Isotype: Mouse IgG1, κ

Immunogen: Synthetic peptide from human EGFR

Reactivity: Human, Non-human primate

Preparation: The antibody was purified by affinity

chromatography and conjugated with

APC/Cyanine7 under optimal

conditions.

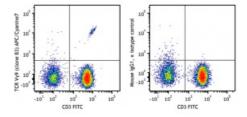
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA)

Workshop Number: V CD22.14

Concentration: Lot-specific



Human peripheral blood mononuclear cells were stained with CD3 FITC and TCR Vγ9 (clone B3) APC/Cyanine7 (left) or mouse IgG1, κ APC/Cyanine7 isotype control (right).

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric

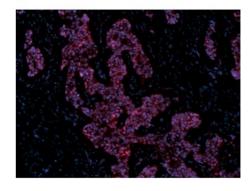
analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for

each application.

Application Notes:

Additional reported applications (for the relevant formats) include:

immunohistochemical staining of acetone-fixed frozen tissue sections.



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 μ g/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

Application References:

- 1. Van Rhijn I, et al. 2003. Intl. Immunol. 15:373.
- References: 2. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

Description:

The V γ 9 TCR is a variant of the TCR γ chain expressed on a subset of γ/δ T cells. V γ 9V δ 2 T lymphocytes, a major γ/δ T cell subset in humans, recognize phosphoantigens, certain tumor cells, and cells treated with aminobisphosphonates. This cell population displays cytolytic activity against various tumor cells. The γ/δ TCR is a heterodimeric TCR complex composed of covalently bound γ and δ chains involved in antigen recognition and the non-covalently associated monomorphic proteins CD3 δ , γ , ϵ , and ζ chains.

Antigen References:

- 1. Scotet E, et al. 2005. Immunity 22:71
- 2. Rincon-Orozco B, et al. 2005. J. Immunol. 175:2144